

Curriculum Vitae

Preeti Raghavan

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<http://rusk.med.nyu.edu/research/motor-recovery-research-laboratory>
Citizenship: US Citizen

Education

1991	High school diploma		Kodaikanal International School, India
1997	MBBS	Medicine and Surgery	Rajah Muthiah Medical College, India
1998	Completed USMLE Steps 1, 2 and 3 for ECFMG Certification		

Postdoctoral Training

Internship

1998-1999	Internal Medicine	Mohammad Sheikhai, MD	Wyckoff Heights Medical Center, Brooklyn, NY
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Residency

1999-2002	Physical Medicine and Rehabilitation	Mark Thomas, MD	Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY
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NIH-K12 Research Fellowship

2002-2005	Motor Control and Learning	Andrew Gordon, PhD John Krakauer, MD	Columbia University, NY
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Licensure and Certification

2002	New York State License Registration		
2003	American Board of Physical Medicine and Rehabilitation initial certification		
2013	American Board of Physical Medicine and Rehabilitation re-certification		
2014	American Board of Physical Medicine and Rehabilitation, Subspecialty of Brain Injury Medicine certification		

Academic Appointments

2002-2005	Clinical Instructor, Department of Rehabilitation Medicine	Mount Sinai School of Medicine, New York, NY
2006-2010	Assistant Professor, Department of Rehabilitation Medicine	Mount Sinai School of Medicine, New York, NY
2007-2010	Graduate Faculty, Graduate School of Biological Sciences	Mount Sinai School of Medicine, New York, NY
2010-present	Assistant Professor of Rehabilitation Medicine, Rusk Institute of Rehabilitation Medicine	New York University School of Medicine, New York, NY
2010-present	Assistant Professor of Physical Therapy	New York University Steinhardt School of Culture, Education, and Human Development, New York, NY

2015-present	Division Director, Motor Recovery Research	Rusk Rehabilitation, New York University School of Medicine, New York, NY
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Hospital Appointments

2002-2007	Assistant Attending, Department of Rehabilitation Medicine	Mount Sinai Medical Center, New York, NY
2008-2010	Attending, Department of Rehabilitation Medicine	Mount Sinai Medical Center, New York, NY
2010-present	Attending, Department of Rehabilitation Medicine	New York University Langone Medical Center, New York, NY

Other Professional Positions and Major Visiting Appointments

2002-2005	NIH K-12 Career Development Awardee, Research Associate, Department of Biobehavioral Sciences	Teachers College, Columbia University, New York, NY
2006-2010	Adjunct Assistant Professor, Department of Biobehavioral Sciences	Teachers College, Columbia University, New York, NY

Awards and Honors

1992	First Prize in Anatomy, Physiology, and Biochemistry at the Rajah Muthiah Medical College.
1993	First Prize in Pharmacology and Microbiology; Second Prize in Pathology and Forensic Medicine at the Rajah Muthiah Medical College.
1993	<i>Dr. R. Nanjunda Rao Award</i> for Best Outgoing Student in Anatomy.
1993	Second Prize for a dissertation entitled: " <i>Intrinsic Muscles of the Hand: An Evolutionary and Morphological Study</i> ". Presented at the XVith Annual Conference of the Indian Association of Anatomists.
1994	First Prize in Public Health & Preventive Medicine; Third Prize in E.N.T at the Rajah Muthiah Medical College.
1995	Prize in Surgical Diagnoses at the Comprehensive Clinical Course, M. G. R. Medical University, Madras, India.
1995	<i>Helen Doak Prize</i> for Best Woman Medical Student.
1996	<i>Thiru Justice Venkataramaiah Endowment Prize</i> for Best Graduating M.B.B.S. Woman Student; Gold Medal.
1996	<i>Thiru Muthukumarasamy Subramaniam Endowment Prize</i> for Best Student in the University Examinations in Microbiology, Community Medicine, and Medicine; Gold Medal.
1996	<i>Thiru R. Venkataraman Prize</i> for Best Graduating M.B.B.S. Student in all the University examinations; Gold medal.
1996	<i>Professor M. Natarajan Endowment Prize</i> for Best Graduating M.B.B.S. Student in the final M.B.B.S. Part I & II University Examinations; Gold Medal.
1996	<i>Chidambaram Dr. Palani Swaminathan Endowment Prizes</i> for a: First ranking student in the pre-clinical M.B.B.S. Examinations; Gold Medal. b: First ranking student in the final M.B.B.S Part I & II Examinations; Gold Medal.

- 1996 *Dr. Navalar Somasunderam Bharathiar Endowment Prize* for Best Graduating Student in all the three final M.B.B.S Part II Examinations: Medicine, Surgery, and Obstetrics & Gynecology; Gold Medal.
- 1996 *Dr. Lalitha Kameswaran Endowment Prize* for Best Graduating Student of M.B.B.S. in all University Examinations; Gold Medal.
- 1996 *Dr. B. Ramamurthi Endowment Prize* for Best All-Round Performance at the Rajah Muthiah Medical College; Gold Medal.
- 1999 Third Prize in Scientific Writing for paper entitled *Reflex Sympathetic Dystrophy Associated with Carcinoma of the Gastric Cardia*; awarded by the Research Committee at Wyckoff Heights Medical Center.
- 2001 NIH K-12 research training fellowship award through the Rehabilitation Medicine Scientist Training Program instituted by the Association of Academic Physiatrists.
- 2002 Distinction of Outstanding Academic Performance by a Resident Physician awarded by the Faculty of the Residency Training Program in Physical Medicine and Rehabilitation at Albert Einstein College of Medicine.
- 2004 New Investigator Award from the General Clinical Research Center, Mount Sinai School of Medicine, New York
- 2005 Education Research Fund- *New Investigator Award* from the Foundation for Physical Medicine and Rehabilitation.
- 2006 Education Research Fund – *Best Research Paper Award for a paper published by a physiatrist in any peer reviewed journal* from the Foundation for Physical Medicine and Rehabilitation.
- 2009 Invited to Program in Academic Leadership (PAL) sponsored by the Association of Academic Physiatrists
- 2011 Invited participant in NIH/NICHHD-sponsored Plasticity Workshop
- 2013 Mid-Career Award from the Foundation for Physical Medicine and Rehabilitation.
- 2013 Invited participant in NIH/NINDS sponsored Interventions Designed to Eliminate and Solve (IDEAS) Stroke Disparities Workshop
- 2014 Stroke Disparity Training certificate, Center for Stroke Disparities Solutions, New York University School of Medicine.
- 2014 Selected to participate in Mentor Development Program, New York University School of Medicine
- 2014 Selected to NSF funded I-corps program for academic entrepreneurs

Major Committee Assignments

International and National

- 2011-present Brain Injury Study Section, Special Emphasis Panel/Scientific Review Group, Ad-hoc Reviewer, Veterans Administration Rehabilitation Research and Development (RR&D) Service
- 2012-present Scientific Peer Review Committee, International Stroke Conference, American Heart Association/ American Stroke Association
- 2014 Scientific Peer Advisory and Review Service, US Army Medical Research and Materiel Command (USAMRMC)
- 2015 External reviewer, Stroke Rehabilitation Module, Canadian Stroke Best Practice Recommendations, Heart and Stroke Foundation, Canada

- 2016-present Motor Function, Speech and Rehabilitation (MFSR) Study Section, Special Emphasis Panel/Scientific Review Group, Ad-hoc Reviewer, National Institutes of Health
- 2016-present Musculoskeletal and Rehabilitation Sciences (MRS) Study Section, Special Emphasis Panel/Scientific Review Group, Ad-hoc Reviewer, National Institutes of Health

New York University

- 2010-2016 Member of the Faculty Council of the New York University School of Medicine, Departmental Representative.
- 2012 Search Committee for Tenure Track Faculty in Division of Music Therapy, NYU Steinhardt.
- 2012-present Advisory Committee for creation of Rehabilitation Sciences PhD program and curriculum at NYU Steinhardt.
- 2015 Search Committee for Tenure Track Faculty in Department of Physical Therapy, NYU Steinhardt.

Memberships, Offices, and Committee Assignments in Professional Societies

- 1999-present American Academy of Physical Medicine and Rehabilitation; Program Representative, Resident Physician Council 1999-2002; Vice Chair, Research Advisory and Advocacy Committee, Resident Physician Council 2000-2001.
- 2001-present Association of Academic Physiatrists; Member Program Committee 2005-2011.
- 2003-present Society for Neuroscience
- 2010-present American Physiological Society
- 2010-2012 American Congress of Rehabilitation Medicine
- 2016-present American Society of Neurorehabilitation; Member Advocacy Committee

Editorial Positions

Editorships

- 2013-present Associate Editor, American Journal of Physical Medicine and Rehabilitation.

Editorial Boards

- 2008-present American Journal of Physical Medicine and Rehabilitation.

Ad Hoc Reviewer

- 2005- American Journal of Physical Medicine and Rehabilitation
- 2006- Archives of Physical Medicine and Rehabilitation
- 2010- Brain
- 2009- Journal of Neurophysiology
- 2012- Motor Control
- 2014- Neurology
- 2014- Neurorehabilitation and Neural Repair
- 2014- PM&R
- 2015- Transactions on Neural Systems and Rehabilitation Engineering
- 2016- PNAS
- 2016- Cortex

Principal Clinical and Hospital Service Responsibilities

- 2002-2005 Attending Physician, Inpatient Brain Injury Unit, Department of Rehabilitation Medicine, Mount Sinai Medical Center.
- 2005-2010 Attending Physician, Outpatient Neurorehabilitation Practice, Department of Rehabilitation Medicine, Mount Sinai Medical Center.
- 2010-2013 Attending Physician, Faculty Group Practice, Rusk Institute of Rehabilitation Medicine, New York University Langone Medical Center.
- 2010-present Attending Physician, Outpatient Pediatric and Adult Baclofen Clinic, Rusk Institute of Rehabilitation Medicine, Hospital for Joint Diseases, New York University Langone Medical Center. *This clinic serves disabled children and adults with severe spasticity.*
- 2013-present Attending Physician, Neuromuscular Hand Clinic, Hospital for Joint Diseases, New York University Langone Medical Center. *This clinic treats deficits in hand function in children and adults with spastic paresis from cerebral palsy, stroke, and other neuromuscular conditions.*

Major Administrative Responsibilities

- 2015-present Division Director, Motor Recovery Research and Faculty Mentor, Rusk Rehabilitation, New York University School of Medicine, New York, NY

Teaching Experience

- 2002-2006 Teaching attending Inpatient rounds, for residents on the inpatient Brain Injury unit, department of Rehabilitation Medicine, all year round.
- 2005-2007 Lecturer, Stroke Rehabilitation, for all residents in the department of Rehabilitation Medicine, 2 hours per year.
- 2006 Preceptor, 2nd year Brain and Behavior course for medical and graduate students at Mount Sinai School of Medicine, 9 small group sessions, 2 hours each, 10 students per session.
- 2006-2010 Co-director, Journal Club, department of Rehabilitation Medicine, 2 hours per month.
- 2008 Course Leader, Advances in Neurorehabilitation. National level CME course, Annual Conference of Association of Academic Physiatrists, 12.5 hours.
- 2010-present Teaching attending Intrathecal Baclofen Clinic, for residents in department of Rehabilitation Medicine, 4 hours per week, all year round.
- 2012 Course co-director, National level CME course, Annual Conference of Association of Academic Physiatrists, 12.5 hours.
- 2012-present Teaching mentor, for trainees of the Rehabilitation Medicine Scientist Training Program, Annual Conference of Association of Academic Physiatrists, 4 hours.
- 2012-present Co-director and teaching faculty, Resident Research Curriculum, department of Rehabilitation Medicine, 12 hours first year, 2-3 hours thereafter.

Patents

- 2010 Weisz, DJ and **Raghavan, P.** *Rehabilitative training devices for use by stroke patients.* US Patent 8,523,792 B2, awarded.
- 2013 **Raghavan, P.** and Kapila V. Non-Provisional Patent for *Game-Based Sensorimotor Rehabilitator*: PCT/US2014/038124.

- 2014 Aluru, V and **Raghavan, P.** Non-Provisional Patent for *Modular Multi-joint Rehabilitation Training System and Method*: PCT/US14/45103.
- 2014 **Raghavan, P** and Stecco A. Patent for *Use of Hyaluronidase for Treatment of Muscle Stiffness*. PCT/US2015/040767.

Invited Seminars and Lectures

- 2001 Methylphenidate and Brain-Injury Outcome. Annual Residents Nite, New York State Society of Physical Medicine and Rehabilitation, New York, NY.
- 2002 Motor Learning and Control in Stroke. Conference on Advances in Neurorehabilitation, Mount Sinai Medical Center, New York, NY.
- 2003 Hand Motor Control after Stroke. Sensorimotor Performance Laboratory, Rehabilitation Institute of Chicago, Chicago, IL.
- 2003 Rehabilitation Medicine Scientist Training Program: Filling a gap in Psychiatrist-initiated Research. Grand Round in Rehabilitation Medicine, Mount Sinai Medical Center, New York, NY.
- 2007 Novel functional assessment strategies for patients with hemiparesis. Annual conference of the American Academy of Physical Medicine and Rehabilitation, Boston, MA.
- 2008 Optimizing therapeutic protocols for recovery of hand function. Annual conference of the American Academy of Physical Medicine and Rehabilitation, Anaheim, CA.
- 2009 Challenges in the recovery of hand function post stroke. Special Grand Rounds in Rehabilitation Medicine, Rusk Institute, New York Medical Center, New York, NY.
- 2009 Challenges in the recovery of hand function post stroke. Research Seminar, Burke Rehabilitation Research Institute, White Plains, NY.
- 2009 Challenges in the recovery of hand function post stroke. Motor Performance Laboratory, Neurological Institute, Columbia University, New York, NY.
- 2009 Can treatment of spasticity improve motor control after stroke? Annual conference of the American Academy of Physical Medicine and Rehabilitation, Austin, TX.
- 2009 Advancements in the understanding and treatment of motor impairments after brain injury. Annual conference of the American Academy of Physical Medicine and Rehabilitation, Austin, TX.
- 2011 Facilitating Hand Motor Control After Stroke. Department of Neuroscience, Grand Rounds. Methodist Hospital, Brooklyn, NY.
- 2011 Facilitating Recovery of Dexterity After Stroke. Grand Rounds Department of Rehabilitation Medicine. New York Presbyterian Hospital, Columbia University, New York, NY.
- 2012 Optimizing muscle activation patterns to prevent pain and dystonia post stroke. Invited presentation at the Annual conference of the Association of Academic Physiatrists, Las Vegas, NV.
- 2012 Freedom of Movement: Muscle Activation Patterns During Piano Playing. Invited presentation at the Annual conference of Performing Arts Medicine Association, Snowmass, CO.
- 2012 **Keynote Address:** Facilitating Recovery of Hand Function Post-Stroke. Stroke Rehabilitation Conference on Innovative Approaches to Stroke Management. North Shore University Hospital, Rust Auditorium, Manhasset, NY. October 27.
- 2013 Updates in Motor Recovery. Grand Rounds. Rusk Institute of Rehabilitation Medicine, March 11.
- 2013 **Research Scholar Lecture:** Recovery of Hand Function Post Stroke. Kingsbrook Rehabilitation Center, Brooklyn, NY, April 5.

- 2013 **Invited Speaker:** Recent Advances in Recovery of Hand Function Post Stroke. International Society of Physical Rehabilitation Medicine (ISPRM), Beijing, China, June 18.
- 2014 Developing Personalized Therapy Protocols Post Stroke. Department of Neurology Stroke Seminar. Mount Sinai School of Medicine, New York, NY.
- 2014 Personalized Motor Learning Post Stroke. Department of Neurology, Stroke Conference. Columbia University Medical Center, New York, NY.
- 2014 **Keynote Speaker:** Division of PMR, 9th Annual James R. Swenson, MD Scientific Symposium Day, University of Utah, May 22.
- 2014 Developing Personalized Rehabilitation Protocols Post-Stroke: New Evidence and Future Directions. Rusk Rehabilitation Grand Rounds, New York University School of Medicine, New York, NY. August 13.
- 2014 Technology and Rehabilitation: Developing Tools to Improve Access to Rehabilitation. Interactive Telecommunications Program, Tisch School of Arts, New York University, September 18.
- 2014 Developing Personalized Rehabilitation Protocols Post-Stroke: New Evidence and Future Directions. Grand Rounds, Department of Rehabilitation Medicine, Jacobi Medical Center, Albert Einstein School of Medicine, Bronx, NY. October 17
- 2015 Facilitating early independent arm rehabilitation in individuals with unilateral hemiplegia. Special Lecture, St. Mary's Hospital, Queens, NY, January 8.
- 2015 Auditory stimulation and motor learning: why, when and how? In Stroke Rehabilitation: Thinking Out of the Box. Annual conference of the Association of Academic Physiatrists, San Antonio, TX, March 13.
- 2015 Facilitating early independent adaptive arm training in individuals with hemiplegia. Stroke Rounds, Department of Neurology, Mount Sinai School of Medicine, New York, NY, April 8.
- 2015 Nordoff-Robbins Music Therapy in Collaborative Interdisciplinary Rehabilitation. Invited speaker Implicit Being: A Colloquium on Music and the Brain, The Louis Armstrong Center for Music and Medicine, Mount Sinai Beth Israel, New York, NY, May 5.
- 2015 Selecting the Right Treatment at the Right Time for the Right Person for Post-Stroke Arm Rehabilitation. Rusk Research Symposium, Rusk Rehabilitation 65th Anniversary Celebrations, New York, NY, June 12.
- 2015 Music Therapy for Stroke Rehabilitation. YoungStroke commemorative conference, Jacksonville, FL, June 28.
- 2015 Personalized Rehabilitation for Post-Stroke Relearning: When to train one hand, two hands or both hands. YoungStroke commemorative conference, Jacksonville, FL, June 28.
- 2015 **Keynote Speaker:** Hyaluronan and Spasticity. 4th International Fascia Research Congress, Washington D.C., September 19.
- 2015 **Invited Speaker on Survivorship for World Stroke Day webinar** sponsored by the Million Hearts® Collaboration: Supporting World Stroke Day: Signs, Symptoms and Survivorship, along with John Clymer, Executive Director National Forum for Heart Disease & Stroke Prevention, Dr. Eduardo Sanchez, Chief Medical Officer for Prevention for the American Heart Association, Dr. Walter Koroshetz, Director of the National Institute of Neurological Disorders and Stroke, and Dr. Meredith Nguyen, Director of the American Stroke Association, October 27.
- 2015 Selecting the Right Treatment at the Right Time for the Right Person for Post-Stroke Arm Rehabilitation. Metropolitan Hospital Grand Rounds, New York, NY, October 29.
- 2015 Facilitating Early Independent Arm Rehabilitation in Individuals with Hemiplegia. Blythedale Children's Hospital Grand Rounds, Valhalla, NY, December 17.

- 2016 Hyaluronidase for Spasticity. Kingsbrook Medical Center Grand Rounds, Brooklyn, NY, January 22.
- 2016 Recovery of Arm Function after Stroke: A View from the Trenches. Moss Rehabilitation Research Institute, Grand Rounds, Philadelphia, PA, January 29.
- 2016 Hyaluronidase for Spasticity. Lecture at New York Society for Physical Medicine and Rehabilitation, New York, NY, February 3.
- 2016 ***Invited Speaker for Plenary Session: State of the Science Stroke Nursing Symposium at the International Stroke Conference.*** Young Stroke: Changing the Way We View Stroke Care in America - Personalized Rehabilitation for Post-stroke Relearning, Los Angeles, CA, February 16.
- 2016 Hyaluronidase for Spasticity: Rationale, Indication and Case Studies. Invited Seminar at the Annual Conference of the Association of Academic Physiatrists, Sacramento, CA, February 18.
- 2016 Recovery of Arm Function after Stroke. Lecture at NYU Lutheran Medical Center, Brooklyn, NY, April 1.
- 2016 ***Invited Speaker for United Nations Windsor Dialogue on “Imagining the Possible: Digital Innovation, Community, Health and Rehabilitation Medicine”.*** Technology for Sustainable Management of Disability. Windsor Castle, Windsor, United Kingdom, April 11-13.
- 2016 Hyaluronan, muscle stiffness and neuroplasticity: is there a connection? Seminar at the NYU Biomatrix Research Center, New York, May 20.
- 2016 Post Stroke Rehabilitation. EMS Symposium, NYU Lutheran Medical Center, Brooklyn, New York, June 9.
- 2016 Human recombinant hyaluronidase injections for muscle stiffness in individuals with upper limb spasticity. Rusk Research Day, New York, June 17.
- 2016 Developing an Enriched Rehabilitation Environment in a Low-Resource Setting. NINDS Stroke Prevention/Intervention Research Program (SPIRP) in Health Disparities Conference, New York, June 24.
- 2016 Bridging the Gap: Clinical Translational Research in Rehabilitation, Moss Rehabilitation Research Institute, Albert Einstein Medical Center, Elkins Park, PA, July 7.
- 2016 ***Keynote Speaker: Selecting the Right Treatment at the Right Time for the Right Person for Restoration of Arm and Hand Function Post Stroke.*** 22nd Annual Interdisciplinary Stroke Course; Stroke Rehabilitation: New Science and Classic Foundations, Rehabilitation Institute of Chicago, Chicago, July 22.
- 2016 Innovation to Improve Access to Post-Stroke Rehabilitation. Lecture to COMRADE (Congruent Mentorship to Reach Academic Diversity in Neuroscience Research) scholars for the Behavioral Neuroscience Training Program, Department of Population Health, New York University, New York, July 25.

Workshops

- 2016 Incorporating Music into Therapy. Workshop on Music Therapy for Stroke Rehabilitation, 22nd Annual Interdisciplinary Stroke Course; Stroke Rehabilitation: New Science and Classic Foundations, Rehabilitation Institute of Chicago, Chicago, July 22 and 23.

Boards and Community Organizations

- 2014- Medical Director, YoungStroke Inc.: A non-profit organization advocating for research and treatment of stroke in young adults
- 2015- Chairperson, International Scientific Advisory Board, YoungStroke, Inc.

Other

- 2014- Peer Mentor: Programs to Increase Diversity among Individuals Engaged in Research (PRIDE)

PUBLICATIONS

Original Reports

1. **Raghavan P**, Krakauer JW, Gordon AM. *Impaired anticipatory control of fingertip forces in patients with a pure motor or sensorimotor lacunar syndrome*. *Brain* 2006, 129(6):1415-25. DOI 10.1093/brain/awl070
2. **Raghavan P**, Petra E, Krakauer JW, Gordon AM. *Patterns of impairment in finger independence after subcortical stroke*. *Journal of Neurophysiology* 2006; 95(1): 369-378. DOI 10.1152/jn.00873.2005
3. **Raghavan P**, Santello M, Gordon AM, Krakauer JW. *Compensatory motor control after stroke: an alternative joint strategy for object-dependent shaping of hand posture*. *Journal of Neurophysiology* 2010; 103(6): 3034-3043. DOI 10.1152/jn.00936.2009
4. Hartley M, Turry A, **Raghavan P**. *The Role of Music and Music Therapy in Aphasia Rehabilitation*. *Music and Medicine* 2010; 2(4) 235-242. DOI 10.1177/1943862110382661
5. Sabini R, Dijkers M, **Raghavan P**. *Stroke survivors talk while doing: Development of a new therapeutic framework for recovery of hand function post stroke*. *Journal of Hand Therapy* 2012; 26(2):124-30. DOI 10.1016/j.jht.2012.08.002
6. Oh-Park M, Holtzer R, Mahoney J, Wang C, **Raghavan P**, Verghese J. *Motor dual-task effect on gait and task of upper limbs in older adults under specific task prioritization: pilot study*. *Aging Clin Exp Res* 2013; 25: 99–106. DOI 10.1007/s40520-013-0014-0
7. Uy CC, Jeffery IA, Wilson M, Aluru V, Madan A, Lu Y, **Raghavan P**. *Autonomic mechanisms of emotional reactivity and regulation*. *Psychology* 2013; 4 (8):669-675. DOI 10.4236/psych.2013.48095
8. Guerrero N, Turry A, Geller D, **Raghavan, P**. *From Historic to Contemporary: Nordoff-Robbins Music Therapy in Collaborative Interdisciplinary Rehabilitation*. *Music Therapy Perspectives* 32(1), 2014, 38–46.
9. Aluru V, Lu Y, Leung A, Verghese J, **Raghavan P**. *Effect of Auditory Constraints on Motor Performance Depends on Stage of Recovery Post Stroke*. *Frontiers in Neurology*, 2014; 5:106. DOI: 10.3389/fneur.2014.00106
10. Rizzo JR, **Raghavan P**, McCreery JR, Oh-Park M, Verghese J. *The effects of emotionally charged auditory stimulation on gait performance in the elderly: a preliminary study*. *Arch Phys Med Rehabil*. 2014 Dec 24. pii: S0003-9993(14)01315-X. DOI: 10.1016/j.apmr.2014.12.004.
11. Lu Y, Bilaloglu S, Aluru V, **Raghavan P**. *Quantifying Feedforward Control: A Scaling Model for Fingertip Forces and Object Weight*. *J Neurophysiol*. 2015 Jul;114(1):411-8. DOI: 10.1152/jn.00065.2015.
12. Wolff A, **Raghavan P**, Kaminski TR, Hillstrom, HJ, Gordon AM. *Differentiation of hand posture to object shape in children with hemiplegic cerebral palsy*. *Res Dev Disabil*. 2015 Oct-Nov;45-46:422-30. DOI: 10.1016/j.ridd.2015.07.002.
13. Mao YR, Lo WL, Lin Q, Li L, Xiao X, **Raghavan P**, Huang DF. *The Effect of Body Weight Support Treadmill Training on Gait Recovery, Proximal Lower Limb Motor Pattern, and Balance in Patients with Subacute Stroke*. *Biomed Res Int*. 2015:175719. DOI: 10.1155/2015/175719.
14. Rizzo JR, Hudson TE, Abdou A, Rashbaum IG, George AE, **Raghavan P**, Landy MS. *Motor planning poststroke: impairment in vector-coded reach plans*. *Physiol Rep*. 2015 Dec;3(12). pii: e12650. DOI: 10.14814/phy2.12650.
15. Bilaloglu S, Lu Y, Geller D, Rizzo JR, Aluru V, Gardner EP, **Raghavan P**. *Effect of blocking tactile information from the fingertips on adaptation and execution of grip forces to friction at the grasping surface*. *J Neurophysiol*. 2016 Mar 1; 115(3):1122-31. DOI: 10.1152/jn.00639.2015.

16. **Raghavan P**, Lu Y, Mirchandani M, Stecco A. *Human Recombinant Hyaluronidase Injections for Upper Limb Muscle Stiffness in Individuals with Cerebral Injury: A Case Series*. EBioMedicine 9 (2016) 306-313, doi: 10.1016/j.ebiom.2016.05.014.
17. Lu Y, Scott M, **Raghavan P**. A Statistical Framework for Single-Case Design with an Application in Post-stroke Rehabilitation. arXiv:1602.03855v1 [stat.AP] 11 Feb 2016.
18. **Raghavan P**, Geller D, Guerrero N, Aluru, V, Eimicke JP, Teresi J, Ogedegbe O, Palumbo A, Turry A. *Music Upper Limb Therapy – Integrated (MULT-I): An Enriched Collaborative Approach to Stroke Rehabilitation*. Front. Hum. Neurosci. 10:498. doi: 10.3389/fnhum.2016.00498
19. Rizzo JR, Thai P, Li EJ, Tung T, Hudson TE, Herrera J, **Raghavan P**. *Structured Wii Protocol for Rehabilitation of Shoulder Impingement Syndrome: A Pilot Study*. Annals of PMR. In Press.
20. Rizzo JR, Hudson TE, Abdou A, Lui YW, Rucker JC, **Raghavan P**, Landy M. *Disrupted Saccade Control in Chronic Stroke*. In Review.

Reviews, Books and Book Chapters

21. **Raghavan P**. *The nature of hand motor impairment after stroke and its treatment*. Current treatment options in cardiovascular medicine 2007; 9:221–228.
22. Stecco A, Stecco C, **Raghavan P**. *Peripheral mechanisms of spasticity and treatment implications*. Current Physical Medicine and Rehabilitation Reports, 2014. DOI 10.1007/s40141-014-0052-3.
23. Anderson A, Owada K, Saad A, Feigin VL, Krishnamurthi R, **Raghavan P**. *Stroke Epidemiology: Global Burden of First-Ever Strokes*. Stroke Recovery and Rehabilitation, 2nd Edition, Eds. Stein J, Harvey R, Winstein C, Zorowitz R, and Wittenberg G. September, 2014.
24. **Raghavan P**. *Upper limb motor impairment post stroke*. Physical Medicine & Rehabilitation Clinics of North America. S1047-9651(15)00055-8. DOI:10.1016/j.pmr.2015.06.008.
25. Gill SV, Vessali M, Pratt J, Watts S, Pratt JS, **Raghavan P**, and DeSilva, JM. *The importance of interdisciplinary research training and community dissemination*. Clin Transl Sci. 2015 Oct;8(5):611-4. DOI: 10.1111/cts.12330.
26. Cowman MK, Schmidt TA, **Raghavan P**, Stecco A. *Viscoelastic Properties of Hyaluronan in Physiological Conditions*. F1000Res. 2015 Aug 25; 4:622. DOI:10.12688/f1000research.6885.1.

Proceedings of Meetings

27. **Raghavan P**. *Interhemispheric transfer of grasp control*. Proceedings of the 7th World Congress of the International Society of Physical and Rehabilitation Medicine, 2013. Edizioni Minerva Medica, Turin, IT. ISBN: 978-88-7711-616-1
<http://filesformailing.minervamedica.it/varie/ISPRM2013.pdf>
28. Bilaloglu S, Aluru V & **Raghavan, P**. *Intermuscular coherence across the affected and unaffected hands during a grasp-and-lift task post stroke*. Proceedings of the American Society of Neurorehabilitation annual conference, 2013.
<http://www.seas.harvard.edu/motorlab/TCMC2013/98.pdf>
29. Perretta D, Chu A, Aluru V, **Raghavan P**, Sher A. *Does the Trapezius Play a Role During Upper Extremity Motion in Patients With Obstetrical Brachial Plexus Birth Palsy?* The Journal of Hand Surgery, 38 (10) Page e26, 2013.
DOI: 10.1016/j.jhssa.2013.08.043

30. Jin X, Aluru V, **Raghavan P**, Agrawal SK. *The Effect of CAREX on Muscle Activation during a Point-to-point Reaching Task*. International Conference on Rehabilitation Robotics 2015. Accepted. <http://www.icorr2015.enabling-technology-festival.org/>

Recent Abstracts

1. **Raghavan P**, Bilaglou S, Aluru V, Noel K, Geller D. *Use of Botulinum Toxin as a Plasticity Inducing Agent Post Stroke*. International Stroke Conference; 2015: Nashville TN.
2. Rizzo JR, Hudson T, Abdou A, **Raghavan P**, Landy MS. *Post Stroke Oculomotor Abnormalities Evident During Objective Eye Tracking but NOT Under Clinical Assessment*. International Stroke Conference; 2015: Nashville TN.
3. Castiglione J, Aluru V, Weiner B, Utomo P, Howard J, Herbert J, **Raghavan P**. *Precision Grasp as a Functional Biomarker for Early Stage Multiple Sclerosis*. Annual conference of the Association of Academic Physiatrists, San Antonio, TX, 2015.
4. Rizzo JR, Hudson T, **Raghavan P**, Landy MS. *The Kinematics of Post-stroke Reaching: Understanding Motor Planning Deficits*. Electrode Store Best Paper Award. Annual conference of the Association of Academic Physiatrists, San Antonio, TX, 2015.
5. Ashwin R, Bilaloglu S, **Raghavan P**, Kapila V. *Cost-effective Mechatronic device for Stroke Rehabilitation*. 3rd Annual NYU Polytechnic School of Engineering Research Expo, New York University, New York, NY, April 24, 2015.
6. Amorapath P, Aluru V, Aronson M, Bilaloglu S, Im B, Rath J, **Raghavan P**. *Physiologic Mechanisms of Emotional Impairment in Traumatic Brain Injury*. Annual conference of the American Academy of Physical Medicine and Rehabilitation, Boston, MA, 2015.
7. Tang A, Aluru V, Hassan M, Bishop L, Stein J, **Raghavan P**. *Characterizing Impairments in Digit Angular Excursion and Individuation in Different Shoulder Positions Post Stroke*. F36, American Society of Neurorehabilitation; 2015: Chicago, IL.
8. Lin Q, Aluru V, Geller D, Rhee D, Mudumbi S, Bolikal P, Altschuler E, Lu Y, **Raghavan P**. *Comparing Mirror Visual Feedback and Actual Visual Feedback Post Stroke*. F33, American Society of Neurorehabilitation; 2015: Chicago, IL.
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